



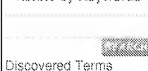
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- 1 [Analysis of techniques to improve protocol processing latency](#)
 David Mosberger, Larry L. Peterson, Patrick G. Bridges, Sean O'Malley
 August 1996 **SIGCOMM '96: Conference proceedings on Applications, technologies, architectures, and protocols for computer communications**

Publisher: ACM [Request Permissions](#)Full text available: Pdf (134.36 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 33, Citation Count: 14

This paper describes several techniques designed to improve protocol latency, and reports on their effectiveness when measured on a modern RISC machine employing the DEC Alpha processor. We found that the memory system---which has long been known to ...

Also published in:

October 1996 **SIGCOMM Computer Communication Review** Volume 26 Issue 4


- 2 [The architecture and performance of security protocols in the ensemble group communication system: Using diamonds to guard the castle](#)
 August 2001 **Transactions on Information and System Security (TISSEC)**, Volume 4 Issue 3

Publisher: ACM [Request Permissions](#)Full text available: Pdf (418.73 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 73, Citation Count: 7

Ensemble is a Group Communication System built at Cornell and the Hebrew university. It allows processes to create *process groups* within which scalable reliable fifo-ordered multicast and point-to-point communication are supported. The system ...

Keywords: Group communication, security

- 3 [Efficient user-space protocol implementations with QoS guarantees using real-time upcalls](#)
 R. Gopalakrishnan, Gurudatta M. Parulkar
 August 1998 **IEEE/ACM Transactions on Networking (TON)**, Volume 6 Issue 4
Publisher: IEEE Press

Full text available:  Pdf (205.42 KB) Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 28, Citation Count: 5


Keywords: multimedia communication, networks, operating system kernels, process scheduling, protocols, real-time systems, transport protocols

4 [A general purpose proxy filtering mechanism applied to the mobile environment](#)

Bruce Zeneil

October 1999 **Wireless Networks**, Volume 5 Issue 5

Publisher: Kluwer Academic Publishers

Full text available:  Pdf (385.25 KB) Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 33, Citation Count: 5


5 [DPF: fast, flexible message demultiplexing using dynamic code generation](#)

Dawson R. Engler, M. Frans Kaashoek



August 1996 **SIGCOMM '96: Conference proceedings on Applications, technologies, architectures, and protocols for computer communications**

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Fast and flexible message demultiplexing are well-established goals in the networking community [1, 18, 22]. Currently, however, network architects have had to sacrifice one for the other. We present a new packet-filter system, DPF (Dynamic Packet Filters), ...

Also published in:


October 1996 **SIGCOMM Computer Communication Review** Volume 26 Issue 4

6 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

November 1997 **CASCON '97: Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available:  Pdf (4.21 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 33, Downloads (12 Months): 368, Citation Count: 0

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event ...

7 [Evaluating design alternatives for reliable communication on high-speed networks](#)

Raoul A. F. Bhoedjang, Kees Verstoep, Tim Rühl, Henri E. Bal, Rutger F. H. Hofman



November 2000 **SIGPLAN Notices**, Volume 35 Issue 11

Publisher: ACM

Full text available:  Pdf (1.25 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 11, Citation Count: 0

We systematically evaluate the performance of five implementations of a single, user-level communication interface. Each implementation makes different architectural

assumptions about the reliability of the network hardware and the capabilities of the ..

8 [An implementation and analysis of the virtual interface architecture](#)

Phillip Buonadonna, Andrew Geweke, David Culler

November 1998 **Supercomputing '98: Proceedings of the 1998 ACM/IEEE conference on Supercomputing (CDROM)**

Publisher: IEEE Computer Society

Full text available:  [HTML \(60.53 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 20, Citation Count: 16

Rapid developments in networking technology and a rise in clustered computing have driven research studies in high performance communication architectures. In an effort standardize the work in this area, industry leaders have developed the Virtual ...


Keywords: cluster, interconnect, network, system-area, user-level, virtual interface architecture

9 [A composable framework for secure multi-modal access to internet services from Post-PC devices](#)

Steven J. Ross, Jason L. Hill, Michael Y. Chen, Anthony D. Joseph, David E. Culler, Eric A. Brewer

October 2002 **Mobile Networks and Applications**, Volume 7 Issue 5

Publisher: Kluwer Academic Publishers

Full text available:  [Pdf \(340.33 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 47, Citation Count: 2

The Post-PC revolution is bringing information access to a wide range of devices beyond the desktop, such as public kiosks, and mobile devices like cellular telephones, PDAs, and voice based vehicle telematics. However, existing deployed Internet services ...

Keywords: internet, middleware, post-PC, security, transcoding


10 [Manageability, availability, and performance in porcupine: a highly scalable, cluster based mail service](#)



Yasushi Saito, Brian N. Bershad, Henry M. Levy

August 2000 **Transactions on Computer Systems (TOCS)**, Volume 18 Issue 3


Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf \(2.52 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)


Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 93, Citation Count: 6

This paper describes the motivation, design and performance of Porcupine, a scalable mail server. The goal of Porcupine is to provide a highly available and scalable electronic mail service using a large cluster of commodity PCs. We designed Porcupine ...

Keywords: cluster, distributed systems, email, group membership protocol, load balancing, replication

-  [Measuring the performance of communication middleware on high-speed network](#)
 Aniruddha Gokhale, Douglas C. Schmidt
 August 1996 **SIGCOMM '96: Conference proceedings on Applications, technologies, architectures, and protocols for computer communications**

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (270.13 KB) [Additional Information: full citation, abstract, references, cited by, index terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 48, Citation Count: 19

Conventional implementations of communication middleware (such as CORBA and traditional RPC toolkits) incur considerable over-head when used for performance-sensitive applications over high-speed networks. As gigabit networks become pervasive inefficient ...

Also published in:


October 1996 **SIGCOMM Computer Communication Review** Volume 26 Issue 4

- 12 [Modeling and analysis of the Unix communication subsystems](#)

Yi-Chun Chu, Toby J. Teorey

November 1996 **CASCON '96: Proceedings of the 1996 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available:  Pdf (88.17 KB) [Additional Information: full citation, abstract, references, index terms](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 14, Citation Count: 0


The performance of host communication subsystems is an important research topic in computer networks. Performance metrics such as throughput, delay, and packet loss are important indices to observe the system behavior. Most research in this area is conducted ...

- 13 [Requirements for and evaluation of RMI protocols for scientific computing](#)

Madhusudhan Govindaraju, Aleksander Slominski, Venkatesh Choppella, Randall Bramley, Dennis Gannon

November 2000 **Supercomputing '00: Proceedings of the 2000 ACM/IEEE conference on Supercomputing (CDROM)**

Publisher: IEEE Computer Society

Full text available:  Pdf (306.83 KB) [Additional Information: full citation, abstract, references, cited by, index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 27, Citation Count: 14

Distributed software component architectures provide a promising approach to the problem of building large scale, scientific Grid applications. Communication in these component architectures is based on Remote Method Invocation (RMI) protocols that .


Keywords: Distributed computing, software component systems, communication protocols, RMI, Java, SOAP

- 14 [Migrating sockets—end system support for networking with quality of service guarantees](#)

David K. Y. Yau, Simon S. Lam

December 1998 **IEEE/ ACM Transactions on Networking (TON)** , Volume 6 Issue 6

Publisher: IEEE Press

Full text available:  Pdf (369.10 KB) **Additional Information:** [full citation](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 38, Citation Count: 1

Keywords: CPU scheduling, bandwidth scheduling, packet demultiplexing, quality of service guarantees, user level protocol


15 [Separating access control policy, enforcement, and functionality in extensible systems](#)



Robert Grimm, Brian N. Bershad

February 2001 **Transactions on Computer Systems (TOCS)**, Volume 19 Issue 1

Publisher: ACM 

Full text available:  Pdf (164.03 KB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 125, Citation Count: 3

Extensible systems, such as Java or the SPIN extensible operating system, allow for use of code, or extensions, to be added to a running system in almost arbitrary fashion. Extensions closely interact through low-latency but type-safe interfaces to ...


Keywords: Java, SPIN, access check, auditing, extensible systems, policy-neutral enforcement, protection domain, protection domain transfer, security policy

16 [Xunet 2: lessons from an early wide-area ATM testbed](#)

Charles R. Kalmanek, Srinivasan Keshav, William T. Marshall, Samuel P. Morgan, Robert C. Reistrick, III

February 1997 **IEEE/ACM Transactions on Networking (TON)**, Volume 5 Issue 1

Publisher: IEEE Press

Full text available:  Pdf (231.69 KB) **Additional Information:** [full citation](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 23, Citation Count: 0


Keywords: asynchronous transfer mode, available bit rate, constant bit rate, variable rate

17 [Interposed request routing for scalable network storage](#)



February 2002 **Transactions on Computer Systems (TOCS)**, Volume 20 Issue 1

Publisher: ACM 

Full text available:  Pdf (363.12 KB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 66, Citation Count: 5


This paper explores interposed request routing in Slice, a new storage system architecture for high-speed networks incorporating network-attached block storage. Slice interposes a request switching filter---called a *μproxy*---along each client's ...

Keywords: Content switch, file server, network file system, network storage, request redirection, service virtualization

18 [The transport layer: tutorial and survey](#)

 Sami Iren, Paul D. Amer, Phillip T. Conrad
December 1999 **Computing Surveys (CSUR)** , Volume 31 Issue 4

Publisher: ACM  [Request Permissions](#)


Full text available:  Pdf (261.78 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 45, Downloads (12 Months): 348, Citation Count: 3

Transport layer protocols provide for end-to-end communication between two or more hosts. This paper presents a tutorial on transport layer concepts and terminology, and survey of transport layer services and protocols. The transport layer protocol ...


Keywords: TCP/IP networks, congestion control, flow control, transport protocol, transport service

19 [An efficient implementation of Java's remote method invocation](#)

 Jason Maassen, Rob van Nieuwpoort, Ronald Veldema, Henri E. Bal, Aske Plaat

August 1999 **PPoPP '99: Proceedings of the seventh ACM SIGPLAN symposium on Principles and practice of parallel programming**

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (1.20 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 59, Citation Count: 25

Java offers interesting opportunities for parallel computing. In particular, Java Remote Method Invocation provides an unusually flexible kind of Remote Procedure Call. Unlike RPC, RMI supports polymorphism, which requires the system to be able to download ..

Also published in:


August 1999 **SIGPLAN Notices** Volume 34 Issue 8

20 [WebExpress: a client/intercept based system for optimizing Web browsing in a wireless environment](#)

Barron C. Housel, George Samaras, David B. Lindquist

December 1998 **Mobile Networks and Applications** , Volume 3 Issue 4

Publisher: Kluwer Academic Publishers

Full text available:  Pdf (338.35 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 28, Citation Count: 10

This paper describes an application model and software technology that makes it possible to run World Wide Web applications in wide area wireless networks. Web technology in conjunction with today's mobile devices (e.g., laptops, notebooks, personal ...

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